

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101772,656A
Source: TFW16
Date Processed by STIC: 1/31/07

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/772,656A

DATE: 01/31/2007
TIME: 11:05:55

Input Set : N:\SSLM\10772656A.txt
Output Set: N:\CRF4\01302007\J772656A.raw

3 <110> APPLICANT: Saus, Juan
 4 Revert , Fernando
 5 Revert-Ros, Francisco
 7 <120> TITLE OF INVENTION: Novel Goodpasture antigen-binding protein isoforms and
 protein misfolded-
 8 mediated disorders
 10 <130> FILE REFERENCE: 03-075-US
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/772,656A
 C--> 12 <141> CURRENT FILING DATE: 2004-02-05
 12 <150> PRIOR APPLICATION NUMBER: US 60/445,043
 13 <151> PRIOR FILING DATE: 2003-02-05
 15 <150> PRIOR APPLICATION NUMBER: US 60/445,003
 16 <151> PRIOR FILING DATE: 2003-02-05
 18 <150> PRIOR APPLICATION NUMBER: US 60/445,004
 19 <151> PRIOR FILING DATE: 2003-02-05
 21 <160> NUMBER OF SEQ ID NOS: 104
 23 <170> SOFTWARE: PatentIn version 3.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 2389
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo sapiens
 30 <220> FEATURE:
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (409)..(2283)
 35 <400> SEQUENCE: 1
 36 gcaggaatg ggcggcggt a cggagggtt g gactggacgc gggactcagc ggccggattt 60
 38 tctttccct tttttccct ttcccttccc tatggaaat tggcatcgag ggggctaagt 120
 40 tcgggtggca ggcggcggtt caacgcaggg gtcacggcga cggcgccggc ggctgacggc 180
 42 tgaaagggtt ggcttccttc accgctcgtc ctcccttcctc gctccgctcg gtgtcaggcg 240
 44 cggcgccggc ggcggcggtt gacttcgtcc ctcccttcctc tccccccac accggagcgg 300
 46 gcaacttcg ctccgcatac ccccgaccct tcaccccgag gactgggcgc ctccctccggc 360
 48 gcagctgagg gagcgggggc cggttccttg ctccgttgc gagcctcc atg tcg gat 417
 49 . Met Ser Asp
 50 . 1
 52 aat cag agc tgg aac tcg tcg ggc gag gag gat cca gag acg gag 465
 53 Asn Gln Ser Trp Asn Ser Ser Gly Ser Glu Glu Asp Pro Glu Thr Glu
 54 5 10 15
 56 tct ggg ccg cct gtg gag cgc tgc ggg gtc ctc agt aag tgg aca aac 513
 57 Ser Gly Pro Pro Val Glu Arg Cys Gly Val Leu Ser Lys Trp Thr Asn
 58 20 25 30 35
 60 tac att cat ggg tgg cag gat cgt tgg gta gtt ttg aaa aat aat gct 561
 61 Tyr Ile His Gly Trp Gln Asp Arg Trp Val Val Leu Lys Asn Asn Ala
 62 40 45 50
 64 ctg agt tac tac aaa tct gaa gat gaa aca gag tat ggc tgc aga gga 609

(pg. 6)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/772,656A

DATE: 01/31/2007
TIME: 11:05:55

Input Set : N:\SSLM\10772656A.txt
Output Set: N:\CRF4\01302007\J772656A.raw

65	Leu	Ser	Tyr	Tyr	Lys	Ser	Glu	Asp	Glu	Thr	Glu	Tyr	Gly	Cys	Arg	Gly	
66	55						60						65				
68	tcc	atc	tgt	ctt	agc	aag	gct	gtc	atc	aca	cct	cac	gat	ttt	gat	gaa	657
69	Ser	Ile	Cys	Leu	Ser	Lys	Ala	Val	Ile	Thr	Pro	His	Asp	Phe	Asp	Glu	
70	70						75						80				
72	tgt	cga	ttt	gat	att	agt	gta	aat	gat	agt	gtt	tgg	tat	ctt	cgt	gct	705
73	Cys	Arg	Phe	Asp	Ile	Ser	Val	Asn	Asp	Ser	Val	Trp	Tyr	Leu	Arg	Ala	
74	85						90						95				
76	cag	gat	cca	gat	cat	aga	cag	caa	tgg	ata	gat	gcc	att	gaa	cag	cac	753
77	Gln	Asp	Pro	Asp	His	Arg	Gln	Gln	Trp	Ile	Asp	Ala	Ile	Glu	Gln	His	
78	100						105					110			115		
80	aag	act	gaa	tct	gga	tat	gga	tct	gaa	tcc	agc	ttg	cgt	cga	cat	ggc	801
81	Lys	Thr	Glu	Ser	Gly	Tyr	Gly	Ser	Glu	Ser	Ser	Leu	Arg	Arg	His	Gly	
82							120					125			130		
84	tca	atg	gtg	tcc	ctg	gtg	tct	gga	gca	agt	ggc	tac	tct	gca	aca	tcc	849
85	Ser	Met	Val	Ser	Leu	Val	Ser	Gly	Ala	Ser	Gly	Tyr	Ser	Ala	Thr	Ser	
86							135					140			145		
88	acc	tct	tca	tcc	aag	aaa	ggc	cac	agt	tta	cgt	gag	aag	ttg	gct	gaa	897
89	Thr	Ser	Ser	Phe	Lys	Lys	Gly	His	Ser	Leu	Arg	Glu	Lys	Leu	Ala	Glu	
90							150					155			160		
92	atg	gaa	aca	ttt	aga	gac	atc	tta	tgt	aga	caa	gtt	gac	acg	cta	cag	945
93	Met	Glu	Thr	Phe	Arg	Asp	Ile	Leu	Cys	Arg	Gln	Val	Asp	Thr	Leu	Gln	
94							165					170			175		
96	aag	tac	ttt	gat	gcc	tgt	gct	gat	gct	gtc	tct	aag	gat	gaa	ctt	caa	993
97	Lys	Tyr	Phe	Asp	Ala	Cys	Ala	Asp	Ala	Val	Ser	Lys	Asp	Glu	Leu	Gln	
98							180					185			190		195
100	agg	gat	aaa	gtg	gta	gaa	gat	gat	gac	ttt	cct	aca	acg	cgt		1041	
101	Arg	Asp	Lys	Val	Val	Glu	Asp	Asp	Glu	Asp	Asp	Phe	Pro	Thr	Thr	Arg	
102							200					205			210		
104	tct	gat	gtt	gac	ttc	ttg	cat	agt	acc	ggc	aat	aaa	gaa	aag	tta		1089
105	Ser	Asp	Gly	Asp	Phe	Leu	His	Ser	Thr	Asn	Gly	Asn	Lys	Glu	Lys	Leu	
106							215					220			225		
108	ttt	cca	cat	gtg	aca	cca	aaa	gga	att	aat	ggt	ata	gac	ttt	aaa	ggg	1137
109	Phe	Pro	His	Val	Thr	Pro	Lys	Gly	Ile	Asn	Gly	Ile	Asp	Phe	Lys	Gly	
110							230					235			240		
112	gaa	gcg	ata	act	ttt	aaa	gca	act	act	gct	gga	atc	ctt	gca	aca	ctt	1185
113	Glu	Ala	Ile	Thr	Phe	Lys	Ala	Thr	Thr	Ala	Gly	Ile	Leu	Ala	Thr	Leu	
114							245					250			255		
116	tct	cat	tgt	att	gaa	cta	atg	gtt	aaa	cgt	gag	gac	agc	tgg	cag	aag	1233
117	Ser	His	Cys	Ile	Glu	Leu	Met	Val	Lys	Arg	Glu	Asp	Ser	Trp	Gln	Lys	
118							260					265			270		275
120	aga	ctg	gat	aag	gaa	act	gag	aag	aaa	aga	aga	aca	gag	gaa	gca	tat	1281
121	Arg	Leu	Asp	Lys	Glu	Thr	Glu	Lys	Lys	Arg	Arg	Arg	Thr	Glu	Glu	Ala	Tyr
122							280					285			290		
124	aaa	aat	gca	atg	aca	gaa	ctt	aag	aaa	tcc	cac	ttt	gga	gga	cca		1329
125	Lys	Asn	Ala	Met	Thr	Glu	Leu	Lys	Lys	Ser	His	Phe	Gly	Gly	Pro		
126							295					300			305		
128	gat	tat	gaa	gaa	ggc	cct	aac	agt	ctg	att	aat	gaa	gaa	gag	ttc	ttt	1377
129	Asp	Tyr	Glu	Glu	Gly	Pro	Asn	Ser	Leu	Ile	Asn	Glu	Glu	Phe	Phe		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/772,656A

DATE: 01/31/2007
TIME: 11:05:55

Input Set : N:\SSLM\10772656A.txt
Output Set: N:\CRF4\01302007\J772656A.raw

130	310	315	320	
132	gat gct gtt gaa gct gct ctt gac aga caa gat aaa ata gaa gaa cag			1425
133	Asp Ala Val Glu Ala Ala Leu Asp Arg Gln Asp Lys Ile Glu Glu Gln			
134	325	330	335	
136	tca cag agt gaa aag gtg aga tta cat tgg cct aca tcc ttg ccc tct			1473
137	Ser Gln Ser Glu Lys Val Arg Leu His Trp Pro Thr Ser Leu Pro Ser			
138	340	345	350	355
140	gga gat gcc ttt tct tct gtg ggg aca cat aga ttt gtc caa aag ccc			1521
141	Gly Asp Ala Phe Ser Ser Val Gly Thr His Arg Phe Val Gln Lys Pro			
142	360	365	370	
144	tat agt cgc tct tcc tcc atg tct tcc att gat cta gtc agt gcc tct			1569
145	Tyr Ser Arg Ser Ser Met Ser Ser Ile Asp Leu Val Ser Ala Ser			
146	375	380	385	
148	gat gat gtt cac aga ttc agc tcc cag gtt gaa gag atg gtg cag aac			1617
149	Asp Asp Val His Arg Phe Ser Ser Gln Val Glu Glu Met Val Gln Asn			
150	390	395	400	
152	cac atg act tac tca tta cag gat gta ggc gga gat gcc aat tgg cag			1665
153	His Met Thr Tyr Ser Leu Gln Asp Val Gly Gly Asp Ala Asn Trp Gln			
154	405	410	415	
156	ttg gtt gta gaa gaa gga gaa atg aag gta tac aga aga gaa gta gaa			1713
157	Leu Val Val Glu Glu Gly Glu Met Lys Val Tyr Arg Arg Glu Val Glu			
158	420	425	430	435
160	gaa aat ggg att gtt ctg gat cct tta aaa gct acc cat gca gtt aaa			1761
161	Glu Asn Gly Ile Val Leu Asp Pro Leu Lys Ala Thr His Ala Val Lys			
162	440	445	450	
164	ggc gtc aca gga cat gaa gtc tgc aat tat ttc tgg aat gtt gac gtt			1809
165	Gly Val Thr Gly His Glu Val Cys Asn Tyr Phe Trp Asn Val Asp Val			
166	455	460	465	
168	cgc aat gac tgg gaa aca act ata gaa aac ttt cat gtg gtg gaa aca			1857
169	Arg Asn Asp Trp Glu Thr Thr Ile Glu Asn Phe His Val Val Glu Thr			
170	470	475	480	
172	tta gct gat aat gca atc atc att tat caa aca cac aag agg gtg tgg			1905
173	Leu Ala Asp Asn Ala Ile Ile Tyr Gln Thr His Lys Arg Val Trp			
174	485	490	495	
176	cct gct tct cag cga gac gta tta tat ctt tct gtc att cga aag ata			1953
177	Pro Ala Ser Gln Arg Asp Val Leu Tyr Leu Ser Val Ile Arg Lys Ile			
178	500	505	510	515
180	cca gcc ttg act gaa aat gac cct gaa act tgg ata gtt tgt aat ttt			2001
181	Pro Ala Leu Thr Glu Asn Asp Pro Glu Thr Trp Ile Val Cys Asn Phe			
182	520	525	530	
184	tct gtg gat cat gac agt gct cct cta aac aac cga tgt gtc cgt gcc			2049
185	Ser Val Asp His Asp Ser Ala Pro Leu Asn Asn Arg Cys Val Arg Ala			
186	535	540	545	
188	aaa ata aat gtt gct atg att tgt caa acc ttg gta agc cca cca gag			2097
189	Lys Ile Asn Val Ala Met Ile Cys Gln Thr Leu Val Ser Pro Pro Glu			
190	550	555	560	
192	gga aac cag gaa att agc agg gac aac att cta tgc aag att aca tat			2145
193	Gly Asn Gln Glu Ile Ser Arg Asp Asn Ile Leu Cys Lys Ile Thr Tyr			
194	565	570	575	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/772,656A

DATE: 01/31/2007
TIME: 11:05:55

Input Set : N:\SSLM\10772656A.txt
Output Set: N:\CRF4\01302007\J772656A.raw

196	gta	gct	aat	gtg	aac	cct	gga	gga	tgg	gca	cca	gcc	tca	gtg	tta	agg	2193
197	Val	Ala	Asn	Val	Asn	Pro	Gly	Gly	Trp	Ala	Pro	Ala	Ser	Val	Leu	Arg	
198	580					585				590					595		
200	gca	gtg	gca	aag	cga	gag	tat	cct	aaa	ttt	cta	aaa	cgt	ttt	act	tct	2241
201	Ala	Val	Ala	Lys	Arg	Glu	Tyr	Pro	Lys	Phe	Leu	Lys	Arg	Phe	Thr	Ser	
202						600				605					610		
204	tac	gtc	caa	gaa	aaa	act	gca	gga	aag	cct	att	ttg	ttc	tag		2283	
205	Tyr	Val	Gln	Glu	Lys	Thr	Ala	Gly	Lys	Pro	Ile	Leu	Phe				
206						615				620							
208	tattaacagg	tactagaaga	tatgttttat	cttttttaa	ctttatttga	ctaataatgac											2343
210	tgtcaatact	aaaatttagt	tgttgaaaagt	atttactatg	tttttt												2389
213	<210>	SEQ ID NO:	2														
214	<211>	LENGTH:	624														
215	<212>	TYPE:	PRT														
216	<213>	ORGANISM:	Homo sapiens														
218	<400>	SEQUENCE:	2														
220	Met	Ser	Asp	Asn	Gln	Ser	Trp	Asn	Ser	Ser	Gly	Ser	Glu	Glu	Asp	Pro	
221	1						5			10					15		
224	Glu	Thr	Glu	Ser	Gly	Pro	Pro	Val	Glu	Arg	Cys	Gly	Val	Leu	Ser	Lys	
225							20			25				30			
228	Trp	Thr	Asn	Tyr	Ile	His	Gly	Trp	Gln	Asp	Arg	Trp	Val	Val	Leu	Lys	
229						35			40				45				
232	Asn	Asn	Ala	Leu	Ser	Tyr	Tyr	Lys	Ser	Glu	Asp	Glu	Thr	Glu	Tyr	Gly	
233						50			55			60					
236	Cys	Arg	Gly	Ser	Ile	Cys	Leu	Ser	Lys	Ala	Val	Ile	Thr	Pro	His	Asp	
237						65			70			75			80		
240	Phe	Asp	Glu	Cys	Arg	Phe	Asp	Ile	Ser	Val	Asn	Asp	Ser	Val	Trp	Tyr	
241						85			90				95				
244	Leu	Arg	Ala	Gln	Asp	Pro	Asp	His	Arg	Gln	Gln	Trp	Ile	Asp	Ala	Ile	
245						100			105				110				
248	Glu	Gln	His	Lys	Thr	Glu	Ser	Gly	Tyr	Gly	Ser	Glu	Ser	Ser	Leu	Arg	
249						115			120			125					
252	Arg	His	Gly	Ser	Met	Val	Ser	Leu	Val	Ser	Gly	Ala	Ser	Gly	Tyr	Ser	
253						130			135			140					
256	Ala	Thr	Ser	Thr	Ser	Ser	Phe	Lys	Lys	Gly	His	Ser	Leu	Arg	Glu	Lys	
257						145			150			155			160		
260	Leu	Ala	Glu	Met	Glu	Thr	Phe	Arg	Asp	Ile	Leu	Cys	Arg	Gln	Val	Asp	
261						165			170			175					
264	Thr	Leu	Gln	Lys	Tyr	Phe	Asp	Ala	Cys	Ala	Asp	Ala	Val	Ser	Lys	Asp	
265						180			185			190					
268	Glu	Leu	Gln	Arg	Asp	Lys	Val	Val	Glu	Asp	Asp	Glu	Asp	Asp	Phe	Pro	
269						195			200			205					
272	Thr	Thr	Arg	Ser	Asp	Gly	Asp	Phe	Leu	His	Ser	Thr	Asn	Gly	Asn	Lys	
273						210			215			220					
276	Glu	Lys	Leu	Phe	Pro	His	Val	Thr	Pro	Lys	Gly	Ile	Asn	Gly	Ile	Asp	
277						225			230			235			240		
280	Phe	Lys	Gly	Glu	Ala	Ile	Thr	Phe	Lys	Ala	Thr	Thr	Ala	Gly	Ile	Leu	
281						245			250			255					
284	Ala	Thr	Leu	Ser	His	Cys	Ile	Glu	Leu	Met	Val	Lys	Arg	Glu	Asp	Ser	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/772,656A

DATE: 01/31/2007
TIME: 11:05:55

Input Set : N:\SSLM\10772656A.txt
Output Set: N:\CRF4\01302007\J772656A.raw

285	260	265	270
288	Trp Gln Lys Arg Leu Asp Lys Glu Thr Glu Lys Lys Arg Arg Thr Glu		
289	275	280	285
292	Glu Ala Tyr Lys Asn Ala Met Thr Glu Leu Lys Lys Ser His Phe		
293	290	295	300
296	Gly Gly Pro Asp Tyr Glu Glu Gly Pro Asn Ser Leu Ile Asn Glu Glu		
297	305	310	315
300	Glu Phe Phe Asp Ala Val Glu Ala Ala Leu Asp Arg Gln Asp Lys Ile		
301	325	330	335
304	Glu Glu Gln Ser Gln Ser Glu Lys Val Arg Leu His Trp Pro Thr Ser		
305	340	345	350
308	Leu Pro Ser Gly Asp Ala Phe Ser Ser Val Gly Thr His Arg Phe Val		
309	355	360	365
312	Gln Lys Pro Tyr Ser Arg Ser Ser Met Ser Ser Ile Asp Leu Val		
313	370	375	380
316	Ser Ala Ser Asp Asp Val His Arg Phe Ser Ser Gln Val Glu Glu Met		
317	385	390	395
320	Val Gln Asn His Met Thr Tyr Ser Leu Gln Asp Val Gly Gly Asp Ala		
321	405	410	415
324	Asn Trp Gln Leu Val Val Glu Glu Gly Glu Met Lys Val Tyr Arg Arg		
325	420	425	430
328	Glu Val Glu Glu Asn Gly Ile Val Leu Asp Pro Leu Lys Ala Thr His		
329	435	440	445
332	Ala Val Lys Gly Val Thr Gly His Glu Val Cys Asn Tyr Phe Trp Asn		
333	450	455	460
336	Val Asp Val Arg Asn Asp Trp Glu Thr Thr Ile Glu Asn Phe His Val		
337	465	470	475
340	Val Glu Thr Leu Ala Asp Asn Ala Ile Ile Ile Tyr Gln Thr His Lys		
341	485	490	495
344	Arg Val Trp Pro Ala Ser Gln Arg Asp Val Leu Tyr Leu Ser Val Ile		
345	500	505	510
348	Arg Lys Ile Pro Ala Leu Thr Glu Asn Asp Pro Glu Thr Trp Ile Val		
349	515	520	525
352	Cys Asn Phe Ser Val Asp His Asp Ser Ala Pro Leu Asn Asn Arg Cys		
353	530	535	540
356	Val Arg Ala Lys Ile Asn Val Ala Met Ile Cys Gln Thr Leu Val Ser		
357	545	550	555
360	Pro Pro Glu Gly Asn Gln Glu Ile Ser Arg Asp Asn Ile Leu Cys Lys		
361	565	570	575
364	Ile Thr Tyr Val Ala Asn Val Asn Pro Gly Gly Trp Ala Pro Ala Ser		
365	580	585	590
368	Val Leu Arg Ala Val Ala Lys Arg Glu Tyr Pro Lys Phe Leu Lys Arg		
369	595	600	605
372	Phe Thr Ser Tyr Val Gln Glu Lys Thr Ala Gly Lys Pro Ile Leu Phe		
373	610	615	620
376	<210> SEQ ID NO: 3		
377	<211> LENGTH: 2311		
378	<212> TYPE: DNA		
379	<213> ORGANISM: Homo sapiens		

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/31/2007
PATENT APPLICATION: US/10/772,656A TIME: 11:05:56

Input Set : N:\SSLM\10772656A.txt
Output Set: N:\CRF4\01302007\J772656A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:104; Xaa Pos. 15 ✓

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7 ✓

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33
Seq#:34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57
Seq#:58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81
Seq#:82,83,84,85,86,87,88,89,90,91,92,102,103,104

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/772,656A

DATE: 01/31/2007

TIME: 11:05:56

Input Set : N:\SSLM\10772656A.txt

Output Set: N:\CRF4\01302007\J772656A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:8200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0